

325413-2026 - Direct award preannouncement

Finland – Laboratory, optical and precision equipments (excl. glasses) – Upgrade of Printer for 3D electronics fabrication

OJ S 91/2026 12/05/2026

Voluntary ex-ante transparency notice

Supplies

1. Buyer

1.1. Buyer

Official name: Tampere University Foundation sr

Email: hankinnat@tuni.fi

Legal type of the buyer: Body governed by public law

Activity of the contracting authority: Education

2. Procedure

2.1. Procedure

Title: Upgrade of Printer for 3D electronics fabrication

Description: Contracting authority (Tampere University) is publishing direct award notice for 'Upgrade of Printer for 3D electronics fabrication'.

Procedure identifier: 1bc69052-1c7a-4d01-8523-a211bde091f7

Internal identifier: TAU/2575/2026

Type of procedure: Negotiated without prior call for competition

2.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38000000 Laboratory, optical and precision equipments (excl. glasses)

2.1.2. Place of performance

Country subdivision (NUTS): Pirkanmaa (FI19B)

Country: Finland

2.1.4. General information

Legal basis:

Directive 2014/24/EU

5. Lot

5.1. Lot: LOT-0000

Title: Upgrade of Printer for 3D electronics fabrication

Description: Contracting authority (Tampere University) is publishing direct award notice for 'Upgrade of Printer for 3D electronics fabrication'.

Internal identifier: TAU/2575/2026

5.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38000000 Laboratory, optical and precision equipments (excl. glasses)

5.1.2. Place of performance

Country subdivision (NUTS): Pirkanmaa (FI19B)
Country: Finland

5.1.6. General information

The procurement is covered by the Government Procurement Agreement (GPA): yes

5.1.10. Award criteria

Criterion:

Type: Quality

Name: Quality

Description: Uniqueness of offering (quality).

Category of award fixed criterion: Fixed value (total)

Award criterion number: 100

5.1.16. Further information, mediation and review

Review organisation: Markkinaoikeus

Organisation whose budget is used to pay for the contract: Tampere University Foundation sr

Organisation executing the payment: Tampere University Foundation sr

Organisation signing the contract: Tampere University Foundation sr

6. Results

Value of all contracts awarded in this notice: 220 000,00 EUR

Direct award

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Justification for direct award: The contract can be provided only by a particular economic operator because of an absence of competition for technical reasons

Other justification: BACKGROUND INFO The Laboratory for Future Electronics (LFE), led by Prof. Matti Mäntysalo at Tampere University, investigates technologies and solutions related to energy-autonomy (storage and harvesting), sensors, conformably wearable electronics (soft /stretchable, on-skin, textile), and hybrid system integration. Strong emphasis is placed on scalable, low-cost manufacturing methods such as printing as well as the integration of printed components and circuits with more conventional component assembly methods. LFE explores also new device and circuit approaches based on printable organic and metal oxide semiconductors. NEED The research group has a Neotech PJ15X BT 3D printer (in use since year 2021). It combines multiple printing technologies with 5-axis motion control enabling complex 3D printing. It is suited for R&D, prototyping and product development operations. Its motion range is 400-300-140mm (X-Y-Z). The raw materials can be introduced by single and two component dispense heads, high viscosity piezo jet head or aerosol print system allowing line printing down to 20 µm. It also includes a 3D printing FDM (fused deposition modeling) module. However, users are increasingly meeting the limits of the current equipment: • Challenges in controlling the edges and border areas to get homogeneous ink layers • No UV or IR curing • Limited design ability with the current program • Problems with tool calibration • Missing substrate camera for print analysis CONCLUSION FOR DIRECT AWARD 3D Printed electronics related assets/technology of former Neotech AMT GmbH is nowadays owned and operated by KRONOS Mechatronics GmbH. The Kronos/Neotech upgrade of PJ15X to Helios Printed Electronics System meets requirements for fabricating complex 3D electronics circuits.

It fits also within project budget (PII FIRI) limitations. Although printers suitable for 3D electronics fabrication are available from other companies (Octomec Inc, nScript Inc.), they do not meet the requirement for compatibility with existing equipment. The selected device from Kronos/Neotech will allow to use the same frame, single and two component fluid dispensers, piezo jet head, aerosol jet dispenser, 3D FDM module and temperature controller. These will be serviced at Kronos while the new equipment is installed. The upgrade includes a new platform enclosure, redesigned electrical and mechanical interfaces containing new holders and connectors for existing toolset, a new compact rotary swivel unit (4/5th axis), a laser-based tool calibration unit, a substrate camera for advanced vision operations with print analysis, an upgraded real-time control system, an upgrade to Aion-5X CAD/CAM software as well as UV and IR light curing with closed-loop-control.

6.1. Result lot identifier: LOT-0000

6.1.2. Information about winners

Winner:

Official name: KRONOS Mechatronics GmbH

Tender:

Tender identifier: KRONOS/ TAU/2575/2026

Identifier of lot or group of lots: LOT-0000

Contract information:

Identifier of the contract: TAU/2575/2026

Title: Upgrade of Printer for 3D electronics fabrication.

Date on which the winner was chosen: 11/05/2026

Organisation signing the contract: Tampere University Foundation sr

8. Organisations

8.1. ORG-0001

Official name: Tampere University Foundation sr

Registration number: 2844561-8

Town: Tampere

Postcode: 33100

Country subdivision (NUTS): Pirkanmaa (FI19B)

Country: Finland

Contact point: Arto Heikkilä

Email: hankinnat@tuni.fi

Telephone: +358 2945211

Internet address: <http://www.tuni.fi/en>

Roles of this organisation:

Buyer

Organisation signing the contract

Organisation whose budget is used to pay for the contract

Organisation executing the payment

8.1. ORG-0002

Official name: Markkinaoikeus

Registration number: 3006157-6

Postal address: Radanrakentajantie 5

Town: Helsinki

Postcode: 00520

Country subdivision (NUTS): Helsinki-Uusimaa (F11B1)

Country: Finland

Email: markkinaoikeus@oikeus.fi

Telephone: +358 295643300

Internet address: <https://www.markkinaoikeus.fi>

Roles of this organisation:

Review organisation

8.1. ORG-0003

Official name: KRONOS Mechatronics GmbH

Registration number: DE449962523

Postal address: Fürther Strasse 246c

Town: Nuremberg

Postcode: 90429

Country subdivision (NUTS): Nürnberg, Kreisfreie Stadt (DE254)

Country: Germany

Email: info@kronos-mct.com

Internet address: <https://www.kronos-mct.com>

Roles of this organisation:

Tenderer

Winner of these lots: LOT-0000

8.1. ORG-0004

Official name: Hansel Oy (Hilma)

Registration number: FI09880841

Postal address: Mannerheiminaukio 1a

Town: Helsinki

Postcode: 00100

Country subdivision (NUTS): Helsinki-Uusimaa (F11B1)

Country: Finland

Contact point: eSender

Email: tekninen@hankintailmoitukset.fi

Telephone: 029 55 636 30

Internet address: <http://hankintailmoitukset.fi>

Roles of this organisation:

TED eSender

Notice information

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